MIPP Production Status at Livermore

J.L. Klay, LLNL

Step 1 - Transfer of RAW data from Enstore to LLNL

This was a major pain. Livermore Computing (LC) and FNAL Computing not willing to play nice with each other (fingers pointed at each other, or "It sounds like you're trying to do something outside the scope of what LLNL supports." says LC)

Thanks to David Lange who got us a "magicssh" working on ilx that makes connections to FNAL (after kerberos authentication) password-less, I was able to proceed.

Disk cache was still a problem - only 10 GB available on /disks/4 via e907ana2 and 30GB on /usr/scratch/sect2 via flxi03 - and we transferred 1.7 TB!

Pnfs server issues and occasional connection issues produced hiccups, but everything is done now, from Run 11000 to 16389

Scripts I used to do the transfer are now in CVS: offline/BatchProc/transfer, including filelist, rawfiles.checklist.

Step 2 - Raw2Root and Pass1

Since we didn't have all of the raw data available, we did not participate in Pass1.

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Step 3 - Pass2

Since we didn't participate in Pass1, I had to modify the bpPass2Worker script to select raw files out of storage, raw2root them, store the raw2rooted data back in storage (for future use) and proceed to Pass2.

LLNL production script is saving histo and root output for further analysis. This slows down the production a bit, but will be valuable for completing TPC dEdx and other studies.

No capability to set up a kcron job to keep kerberos tickets alive (According to LC: "The only sites we have Kerberos trust relationships with are LANL and Sandia. It sounds like she's somehow getting FermiLab credentials here and using them to go there. I'm a bit suprised this works at all." "It sounds like you're trying to do something outside the scope of what LLNL supports.") so transferring data to Enstore at the end of the job is out of the question.

Step 4 - Transfer of data back to FNAL

I need to update my offline/BatchProc/transfer/transfertofnal.csh script to include the writing to enstore and execute. This will happen soon…

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- Summary of what's been run:

  As of Wednesday, 09-Nov-2005 at 11:00 PST:

  Pass2: 363 runs processed, 80 jobs failed for some reason (post-mortem to be done*), 20 in progress

  Highest run currently in progress: 13351

- Where is the output?

  Everything is stored in LLNL Mass storage, to be transferred back to FNAL soon. (Timescale estimate ~ 1-2 weeks)

- *Post-mortem issues

  We need to understand why failed jobs at LLNL do not write their status to the db correctly and fix this. Batch processing web reports don't know about the dead LLNL jobs.